

Minutes of the May 9, 2007, Energy Commission Business Meeting.

The meeting was called to order at 10:04 a.m. by Chairman Jackalyne Pfannenstiel.

Present:

Jackalyne Pfannenstiel, Chairman  
John L. Geesman, Commissioner  
Jeffrey D. Byron, Commissioner

The Pledge of Allegiance was lead by Chairman Pfannenstiel.

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A Commissioner may request that an item be moved and discussed later in the meeting.)
  - a. CITY OF WEST COVINA. Possible approval of a change to the scope of work for Energy Efficiency Loan 003-06-ECC to the City of West Covina under the Energy Conservation Assistance Account. Contact: Joseph Wang.
  - b. UNIVERSITY OF CALIFORNIA, DAVIS. Possible approval of Contract 500-06-047 for \$15,000 to co-sponsor the Eleventh Biennial Conference on Transportation Energy and Environmental Policy at the Asilomar Conference Center, Pacific Grove, August 21-24, 2007. (PIER electricity funding.) Contact: Tony Tully.

*Commissioner Geesman moved and Commissioner Byron seconded approval of the Consent Calendar. The vote was unanimous. (3-0)*

2. APPLIANCE EFFICIENCY REGULATIONS. (Docket 07-AAER-1). Possible approval of proposed amendments to the Appliance Efficiency Regulations published as Express Terms (15 Day language) dated April 20, 2007. These amendments will make changes required by a Federal Court Order and a Joint Status Conference Statement Order. Contact: Bill Staack. (15 minutes)

*New 15 Day Language that incorporates public comments will be published and the proposed amendments will be placed on a future agenda. No action was taken.*

3. UNIVERSITY OF CALIFORNIA. Possible approval of PIER work authorization MR-069 with The Regents of the University of California – Office of the President/CIEE, under the UC Master Research Agreement 500-02-004 with The Regents of the University of California – Office of the President/CIEE, for eight grant applications totaling \$599,992 in response to the July 2006 solicitation for the Environmental Exploratory Grant Program 2006. (PIER electricity funding.) Contact: Kelly Birkinshaw. (10 minutes)
  - a. David Fridley, Lawrence Berkeley National Laboratory, *Energy Accounting for California*, \$75,000.

- b. Karen Palmer, Resources for the Future, *Point of Compliance Regulation and Point of Allocation in a CO2 Cap and Trade Program for the Electricity Sector in California*, \$75,000.
- c. Lynn Price, Lawrence Berkeley National Laboratory, *Quantifying Greenhouse Gas Emissions Generated by the Consumption Patterns of California Residents*, \$75,000.
- d. Y. Joe Huang, Lawrence Berkeley National Laboratory, *Effects of Global Climate Change on Building Energy Consumption and its Implications on Building Energy Codes and Policy in California*, \$75,000.
- e. Hugo Destailats, Lawrence Berkeley National Laboratory, *Are Ventilation Filters Degrading Indoor Air Quality in California Classrooms?* \$75,000.
- f. Terry Root, Stanford University, *Rapid Global Warming and Breeding in Migratory Birds: Utilizing an Undervalued Historic Database*, \$75,000.
- g. Iain Walker, Lawrence Berkeley National Laboratory, *Ozone Reductions Using Building Envelopes*, \$75,000.
- h. Lara Kueppers, UC Merced, *Ecosystem Feedbacks to Climate Change in California: Integrated Climate Forcing from Vegetation Redistribution*, \$74,992.

*Commissioner Geesman moved and Commissioner Byron seconded approval of the eight grant applications. The vote was unanimous. (3-0)*

- 4. U. S. DEPARTMENT OF ENERGY – LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Contract 500-06-046 for \$260,000 with the U. S. Department of Energy – Lawrence Berkeley National Laboratory to develop an automated fault detection procedure for packaged air-conditioning units and enhance visualization software used to train HVAC technicians (ePrimer) by adding energy-efficiency and peak demand analysis capabilities. (PIER electricity funding.) Contact: Chris Scruton. (10 minutes)

*Commissioner Geesman moved and Commissioner Byron seconded approval of Contract 500-06-046. The vote was unanimous. (3-0)*

- 5. CAL POLY CORPORATION. Possible approval of Contract 500-06-040 with Cal Poly Corporation for \$1,600,000 to study energy intensive components in the agricultural water-use cycle and identify those with greatest potential to achieve energy conservation, resource efficiencies and peak load reduction. (PIER electricity funding.) Contact: Richard Sapudar. (10 minutes)

*Commissioner Geesman moved and Commissioner Byron seconded approval of Contract 500-06-040. The vote was unanimous. (3-0)*

6. CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES. Possible approval of Contract 500-06-048 with the Center for Energy Efficiency and Renewable Technologies for \$999,714 to develop renewable energy and transmission guidelines to meet AB 32 and Renewables Portfolio Standard goals. (PIER electricity funding.) Contact: Clare Laufenberg. (10 minutes)

*Item 6 was moved to the May 23, 2007, Business Meeting.*

7. U. S. DEPARTMENT OF ENERGY – LAWRENCE LIVERMORE LABORATORY. Possible approval of Amendment 1 to Contract 500-06-017 to add \$550,000 and two additional tasks, adjust the schedule, and extend the term by thirteen months to January 29, 2010. The project will expand the scope of Geographical Information System (GIS) enabled analysis to include non-renewable distributed generation and combined heat and power along with renewable resources. (PIER electricity funding.) Contact: Jennifer Allen. (10 minutes)

*Commissioner Geesman moved and Commissioner Byron seconded approval of Amendment 1 to Contract 500-06-017. The vote was unanimous. (4-0)*

8. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITIES. Possible approval of Amendment 5 to Contract 500-98-014 with the Trustees of the California State Universities to extend the Energy Innovations Small Grant Program agreement two years and add \$9,500,000. (PIER electricity and natural gas funding.) Contact: Dave Michel. (10 minutes)

*Commissioner Geesman moved and Commissioner Byron seconded approval of Amendment 5 to Contract 500-98-014. The vote was unanimous. (3-0)*

9. TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY. Possible approval of nine grant applications, totaling \$706,988, in response to Solicitation Cycle 06-02 of the Energy Innovations Small Grant Program. (PIER funded.) Contact Dave Michel. (10 minutes)
  - a. 06-02-10, Widener University, Chester, PA, *Fault Location in Power Distribution System with Penetration of Distributed Energy Resources*, \$49,995.
  - b. 06-02-33, Scott Larwood (Individual), Stockton, CA, *Dynamic Analysis Tool Development for Advanced Geometry Wind Turbine Blades*, \$67,250.
  - c. 06-02-25, Los Alamos Renewable Energy, LLC, Pojoaque, NM, *Clean and Dispatchable Renewable Electricity through Solar Reduction of Carbon*, \$95,000.
  - d. 06-02-32, The Trustees of Columbia University, New York, NY, *Determining the Feasibility of a High Temperature Carbon-Dioxide Separation Membrane*, \$73,865.
  - e. 06-02-41, Gas Technology Institute, Des Plaines, IL, *Feasibility Evaluation of a Direct Carbon Fuel Cell (DCFC) Operating on Petroleum Coke Using a Molten*

*Carbonate Electrolyte, \$94,906.*

- f. 06-02-67, Rensselaer Polytechnic Institute, Troy, NY, *High-Efficiency and Low-Cost Single-Phase Power Factor Corrected (PFC) Converters*, \$94,210.
- g. 06-02-63, Michigan State University, East Lansing, MI, *Woven Turbo Wheel as a Key Technology for Economical Compact and High Efficient R718 Chiller That Uses Only Water as a Refrigerant*, \$95,000.
- h. 06-02-27, University of Miami, Coral Gables, FL, *Hybrid DC and AC Linked Microgrids*, \$50,000.
- i. 06-02-60, CFIC G-Drive Inc., Troy, NY, *The Next Wave in Air-Conditioning: Acoustic-Sterling Commercial Rooftop Units*, \$86,762.

*Commissioner Geesman moved and Commissioner Byron seconded approval of the nine grant applications. The vote was unanimous. (3-0)*

- 10. ICF RESOURCES, LLC. Possible approval of Amendment 1 to Contract 500-06-011 with ICF Resources, LLC, adding \$2,500,000 to continue technical support for the Energy Research and Development Division. (PIER electricity, natural gas and transportation funding, GRDA funding.) Contact: Jesselyn Rosales. (10 minutes)

*Item 10 was moved to the May 23, 2007, Business Meeting.*

- 11. NAVIGANT CONSULTING, INC. Possible approval of Amendment 1 to Contract 500-06-012 with Navigant Consulting, Inc., adding \$1,500,000 to continue technical support for the Energy Research and Development Division. (PIER electricity, natural gas and transportation funding, GRDA funding.) Contact: Jesselyn Rosales. (10 minutes)

*Item 11 was moved to the May 23, 2007, Business Meeting.*

- 12. SCIENCE APPLICATION INTERNATIONAL CORPORATION. Possible approval of Amendment 1 to Contract 500-06-013 with Science Application International Corporation adding \$1,500,000 to continue technical support for the Energy Research and Development Division. (PIER electricity, natural gas and transportation funding, GRDA funding.) Contact: Jesselyn Rosales. (10 minutes)

*Item 12 was moved to the May 23, 2007, Business Meeting.*

- 13. KEMA CONSULTING, INC. Possible approval of Amendment 1 to Contract 500-06-014 with KEMA Consulting, Inc. adding \$2,500,000 to continue technical support for the Energy Research and Development Division. (PIER electricity and natural gas funding.) Contact: Jesselyn Rosales. (10 minutes)

*Item 13 was moved to the May 23, 2007, Business Meeting.*

14. UNIVERSITY OF CALIFORNIA, DAVIS. Possible approval of Contract 400-06-016 for \$150,000 with the University of California, Davis to provide analysis and background information for the *2007 Integrated Energy Policy Report* on improving the efficiency of light sources in California. (ERPA funding.) Contact: John Sugar. (10 minutes)

*Commissioner Geesman moved and Commissioner Byron seconded approval of Contract 400-06-016. The vote was unanimous. (3-0)*

15. **Minutes**

- a. Approval of the April 25, 2007, Business Meeting Minutes.

*Commissioner Geesman moved and Commissioner Byron seconded approval of the minutes. The vote was unanimous. (3-0)*

16. **Commission Committee Presentations/Discussion** – None.
17. **Chief Counsel's Report** – Chief Counsel Bill Chamberlain gave the report.
18. **Executive Director's Report** – Executive Director B. B. Blevins gave the report.
19. **Legislative Director's Report** – Legislative Director Mike Smith gave the report.
20. **Public Adviser's Report** - None
21. **Public Comment**  
Mr. Scott Matthews

There being no further business, the meeting was adjourned at 11:03.

Respectfully submitted,

HARRIET KALLEMEYN  
Secretary to the Commission